PATENT COOPERATION TREATY

rom NTE	the RNATIONAL SEARCHING AUTH	IORITY		REC'D 0 8 JUL 2004			
To:	***************************************			PC PCT			
•	see form PCT/ISA/220	,	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				PCT Rule 43 <i>bis</i> .1)			
		., .	Date of malling				
			(day/month/year) se	e form PCT/ISA/210 (second sheet)			
	icant's or agent's file reference form PCT/ISA/220		FOR FURTHER A				
	national application No. T/EP2004/050205	International filing date (25.02.2004	(day/month/year)	Priority date (day/month/year) 18.04.2003			
International Patent Classification (IPC) or both national classification and IPC F23D14/14							
Applicant N.V. BEKAERT S.A.							
1.	This opinion contains indica	tions relating to the fol	lowing items:				
	☐ Box No. I Basis of the opinion						
	☑ Box No. II Priority						
	☐ Box No. III Non-establish	nment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability			
	☐ Box No. IV Lack of unity	of Invention					
		atement under Rule 43 <i>bi</i> citations and explanatior		novelty, inventive step or industrial tement			
	☐ Box No. VI Certain docu	ments cited .					
ı	☐ Box No. VII Certain defea	cts in the international ap	plication				
	☐ Box No. VIII Certain obse	rvations on the internation	nal application				
2.	FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3.	·						

Name and mailing address of the ISA:

Authorized Officer

9)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050205

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	Box N	o. I Basis of the opinion					
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
	la	nis opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search index Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
	b. format of material:						
		in written format					
		in computer readable form					
	c. time	e of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3	h C	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.					
4	. Additi	onal comments:					

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	Box No. II	Priority					
1.		□ The following document has not been furnished:					
		copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).					
		translation of the earlie	r appl	ication whos	se priority has been claimed (Rule 43bis.1 and 66.7(b)).		
					er the validity of the priority claim. This opinion has in that the relevant date is the claimed priority date.		
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	. Additional observations, if necessary:						
	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	•	Yes: No:	Claims Claims	2-4,7-9,13-15 1,5,6,10-12		
	Inventive st	tep (IS)	Yes: No:	Claims Claims	2-4,7-9,13-15		
	Industrial a	pplicability (IA)	Yes: No:	Claims Claims	1-15		

2. Citations and explanations

see separate sheet

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International application No.

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Reference is made to the following documents:

- D1 EP 0 594 262 A
- D2 US 2002/0148226 A
- D3 WO 01 79756 A

V. Statement according to Rule 43bis.1(a)(i) PCT

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 (Fig.1 and corresponding description) discloses a gas burner with the same features:
 - a metal burner membrane (3) comprising a base section (cylindrical portion) having a smallest radius of curvature $R_{\rm base}$ (the radius of curvature of the cylindrical portion is uniform and equals the radius of the cylinder) and a closing section (flat top portion),
 - the burner membrane is uninterrupted,
 - the burner membrane comprises a transition region (torus shaped portion) for connecting said base section to said closing section, said transition region having a smallest radius of curvature $r_{\text{transition}}$ larger than zero and smaller than R_{base} .

From Fig.1 it clearly appears that the radius of the corners at the top of the cylindrical membrane is smaller than the radius of the cylinder. Otherwise there would be no flat top but a spherical closing section.

Document D2 also discloses the subject-matter of claim 1.

The subject-matter of claims 11,12 is also known from D1. The subject-matter of claims 5,6,10-12 is also known from D2. Hence the subject-matter of these claims is not new (Article 33(2) PCT). The subject-matter of claims 2-4,8,9 cannot be considered as inventive (Article 33(3) PCT) because the structures of the burner membrane claimed therein are well known to a skilled person (see for example D3) who would use them in the burner of D1 or D2. Similarly the shape of the burner membrane in claims 13-15 are not inventive (Article 33(3) PCT) because

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they merely represent shapes a skilled person would choose to adapt the shape of the burner to the shape of the object to be heated.

- 3) Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1,D2,D3 is not mentioned in the description, nor are these documents identified therein.
- 4) The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).